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ABSTRACT OF THE DISCLOSURE

5 A transfer scheme for speech and voice band signals
and ISDN digital signals which is capable of reducing a
transmission bandwidth required for communications of
speech, FAX, voice band data and ISDN digital signals that
are to be entered from the STM network to the ATM network,
and reducing the ATM cell assembling delay time, is
disclosed. In the ATM cell multiplexing at the transmitting
10 side, the signal type judgement results for the signals
entered from the STM network are notified to the ATM cell
multiplexing unit, and these signals are multiplexed into
the ATM cell according to the notified signal types so that
it becomes possible to multiplex the signals for each input
15 signal type separately, and it becomes possible to treat
the STM signals with different network qualities for
different signal types as a single ATM connection in which
only the input signals with the same quality requirement
are multiplexed within the ATM network.

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